

Totaquina 15 %



Date of issue:	24.01.2018
Revision date:	15.02.2024
Version:	6
Replaces version:	5

SECTION 1: Identification of t	he substance/mixture and of the company/undertaking
1.1. Product identifier	
Product form Product name UFI	: Mixture : Totaquina 15 % : UFI: GC31-M0V2-500Q-EQE4
1.2. Relevant identified uses of	the substance or mixture and uses advised against
1.2.1.       Relevant identified uses         Main use category       Use of the substance/mixture	<ul> <li>Industrial use. Professional use</li> <li>Intermediate         <ul> <li>Laboratory chemicals</li> <li>Pharmaceuticals</li> <li>Food additive</li> <li>Raw materials</li> </ul> </li> </ul>
1.2.2. Uses advised against	
No additional information available	
1.3. Details of the supplier of the	e safety data sheet
Manufacturer/Supplier Buchler GmbH Harxbuetteler Straße 3 38110 Braunschweig - Germany T +49 5307 9310 info@buchler-gmbh.com - www.buchler	-gmbh.com
Safety data sheet: DLAC Dienstleistung	sagentur Chemie GmbH, E-Mail: <u>sds@dlac-gmbh.de</u>

### 1.4. **Emergency telephone number**

Country	Organisation/Company	Address	Emergency number
Germany	Giftinformationszentrum-Nord Zentrum Pharmakologie und Toxikologie der Universität Göttingen	Robert-Koch-Straße 40 D-37075 Göttingen	+49 551 19240 (German/English)

# **SECTION 2: Hazards identification**

Classification of the substance or mixture 2.1.

## Classification according to Regulation (EC) No. 1272/2008 [CLP]

Acute toxicity (oral), Category 4 H302 Sensitisation - Skin, Category 1A H317

Full text of H statements: see section 16

### Adverse physicochemical, human health and environmental effects

Harmful if swallowed. May cause an allergic skin reaction.

### 2.2. Label elements

Labelling according to Regulation (EC)	No. 1272/2008	[CLP]
Hazard pictograms (CLP)	:	$\wedge$
		•

	GHS07
Signal word (CLP)	: Warning
Hazard statements (CLP)	: H302 - Harmful if swallowed. H317 - May cause an allergic skin reaction.
Precautionary statements (CLP)	<ul> <li>P261 - Avoid breathing dust.</li> <li>P270 - Do not eat, drink or smoke when using this product.</li> <li>P280 - Wear protective gloves, protective clothing, eye protection.</li> <li>P301+P312 - IF SWALLOWED: Call a POISON CENTER, doctor if you feel unwell.</li> <li>P302+P352 - IF ON SKIN: Wash with plenty of water and soap.</li> <li>P333+P313 - If skin irritation or rash occurs: Get medical advice/attention.</li> </ul>



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### 2.3. **Other hazards**

Contains no substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605.

# **SECTION 3: Composition/information on ingredients**

### 3.1. Substances

### Not applicable

3.2. Mixtures			
Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Quinine	(CAS No) 130-95-0 (EC No) 205-003-2 (REACH No) 01-2120101671-71-xxxx	15 – 17.5	Acute Tox. 4 (Oral), H302 Skin Sens. 1A, H317
Dihydroquinine	(CAS No) 522-66-7 (EC No) 208-334-0		Acute Tox. 4 (Oral), H302 Skin Sens. 1A, H317
Cinchondine	(CAS No) 485-71-2 (EC No) 207-622-3 (REACH No) 01-2120103385-66-xxxx	30 – 40	Acute Tox. 4 (Oral), H302 Skin Sens. 1A, H317
Dihydrocinchondine	(CAS No) 485-64-3 (EC No) 207-620-2		Acute Tox. 4 (Oral), H302 Skin Sens. 1A, H317
Cinchonine	(CAS No) 118-10-5 (EC No) 204-234-6 (REACH No) 01-2120103384-68-xxxx	35 – 50	Acute Tox. 4 (Oral), H302 Skin Sens. 1A, H317
Dihydrocinchonine	(CAS No) 485-65-4 (EC No) 207-621-8		Acute Tox. 4 (Oral), H302 Skin Sens. 1A, H317

Full text of H-statements: see section 16

SECTION 4: First aid measures	
4.1. Description of first aid measures	
First-aid measures general	: Get medical advice/attention if you feel unwell. If possible show him this sheet. Failing this, show him the packaging or label. Never give anything by mouth to an unconscious person. Place the affected person in the recovery position.
First-aid measures after inhalation	: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
First-aid measures after skin contact	: Take off immediately all contaminated clothing and wash it before reuse. Wash with plenty of soap and water. If skin irritation or rash occurs: Get medical advice/attention.
First-aid measures after eye contact	: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
First-aid measures after ingestion	: Rinse mouth. Drink water as a precaution. Get medical advice/attention.
4.2. Most important symptoms and effe	cts, both acute and delayed
Symptoms/injuries	<ul> <li>Signs of cinchonism: Neurotoxic effects (e.g. headache, tinnitus, visual disturbances, confusion), gastrointestinal disorders (e.g. nausea, vomiting, diarrhoea), exanthema and haematological disorders.</li> </ul>
Symptoms/injuries after skin contact	: May cause an allergic skin reaction.
Symptoms/injuries after ingestion	: Harmful if swallowed.
4.3. Indication of any immediate medic	al attention and special treatment needed
Treat symptomatically.	
SECTION 5: Firefighting measures	
5.1. Extinguishing media	
Suitable extinguishing media	<ul> <li>Adapt extinguishing agent to suit the environment. Water spray. Foam. Carbon dioxide. Dry extinguishing powder.</li> </ul>

Unsuitable extingu	lishing media	:	Do not use a heavy water stream.	
5.2. Special	hazards arising from the su	ıbst	ance or mixture	
Hazardous decom fire	position products in case of	:	Carbon oxides (CO, CO <sub>2</sub> ). Nitrogen oxides.	
5.3. Advice	for firefighters			
Firefighting instruc	tions	:	Use water spray or fog for cooling exposed containers. Prevent fire-fighting water from ente environment.	ring
Protection during f	irefighting	:	Use a self-contained breathing apparatus and also a protective suit (EN 469).	
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according to Regulation (E0	C) No. 1907/2006 (REACH) Wit	h its amendment Regulation (EU) 2020/878	A Membe	er of the FAGUS Group
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SECTION 6: Accid	lental release measເ	ires		
6.1. Personal pre	cautions, protective equi	pment and emergency procedures		
General measures	:	Stop leak if safe to do so. Provide adequate not breathe dust.	e ventilation. Avoid contact v	with skin and eyes. Do
6.1.1. For non-eme Emergency procedures	rgency personnel	Only qualified personnel equipped with suit	able protective equipment n	nay intervene.
6.1.2. For emergen Protective equipment	cy responders	Use personal protective equipment as requinsufficient ventilation.	ired. Wear suitable respirate	ory equipment in case of
	al precautions and public waters. Notify a	authorities if substance enters sewers or publi	c waters.	
6.3. Methods and	material for containment	t and cleaning up		
Methods for cleaning up	) :	Take up mechanically (sweeping, shovellin Minimize generation of dust. Dispose of in a		
6.4. Reference to	other sections			
Concerning personal pro	otective equipment to use,	see section 8. Concerning disposal elimination	on after cleaning, see sectio	n 13.
<b>SECTION 7: Hand</b>	ling and storage			
7.1. Precautions	for safe handling			
Precautions for safe har	ndling	Provide local exhaust or general room vent and eyes. Do not breathe dust. Keep conta		
Hygiene measures	:	<ul> <li>Handle in accordance with good industrial l eat, drink or smoke. Wash hands and other eating, drinking or smoking and when leavin before reuse.</li> </ul>	exposed areas with mild so	pap and water before
7.2. Conditions for	or safe storage, including	any incompatibilities		
Storage conditions	:	Store in original container. Store tightly closs sunlight. Protect from moisture.	ed in a dry and cool place.	Keep out of direct
Storage temperature	:	This substance dose not require any specia		itions.
Prohibitions on mixed st	orage	Keep away from food, drink and animal fee	dingstuffs.	
7.3. Specific end	use(s)			
No additional informatio	n available			
SECTION 8: Expo	sure controls/perso	nal protection		
8.1. Control para	meters			
No additional informatio	n available			
8.2. Exposure co	ntrols			
Appropriate engineeri	ng controls:			
Use adequate ventilatio				
Hand protection:				
-	N 374) Latex Nitrile rubbe	r Butyl rubber 0.4 mm. The exact break thro	auch time has to be found or	ut by the manufacturor c

Wear suitable gloves (EN 374). Latex. Nitrile rubber. Butyl rubber. 0.4 mm. The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

## Eye protection:

Chemical goggles or safety glasses (EN 166).

## Skin and body protection:

Wear suitable protective clothing (EN 344).

### **Respiratory protection:**

Where exposure through inhalation may occur from use, respiratory protection is recommended. Dust production: dust mask with filter type P2.

# Environmental exposure controls:

Avoid release to the environment.

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SECTION 9: Physical and chemical	properties	
9.1. Information on basic physical and o	chemical properties	
Physical state	: Solid	
Colour	: Beige-brown	
Odour	: Odourless	
Melting point/freezing point	: 185 °C	
Boiling point or initial boiling point and boiling range	: No data available	
Flammability	: No data available	
Lower and upper explosion limit	: Not applicable	
Flash point	: Not applicable	
Auto-ignition temperature	: 410 °C	
Decomposition temperature	: No data available	
рН	: 9.0 – 10.0	
Kinematic viscosity	: Not applicable	
Solubility	: Water: 0.5 g/l	
Partition coefficient n-octanol/water (log value)	: 3.17 (Quinine)	
Vapour pressure	: No data available	
Density and/or relative density	: No data available	
Relative vapour density	: Not applicable	
Particle characteristics	: No data available	
9.2. Other information		
Explosive properties	: The substance is not explosive. Dust can form an explosive mixture with air.	
Oxidising properties	: The substance has no oxidising properties.	
Minimum ignition energy	: 1 - 3 mJ (Quinine)	
Bulk density	: 100 - 200 kg/m³	
SECTION 10: Stability and reactivity		
10.1. Reactivity		
No dangerous reactions known under normal co	onditions of use.	
10.2. Chemical stability		
	ommended in section 7 for a minimum of 5 years.	
10.3. Possibility of hazardous reactions		
None under normal use.		
10.4. Conditions to avoid		
Direct sunlight. High temperature. The degradat	ion product quinicine is formed.	
10.5. Incompatible materials		
Oxidizing agent.		
10.6. Hazardous decomposition products	ŝ	
In case of fire: Carbon monoxide. Carbon dioxid		
SECTION 11: Toxicological information	tion	
11.1. Information on hazard classes as d	efined in Regulation (EC) No 1272/2008	

11.1. Information on nazard classes as defined in Regulation (EC) No 1272/2008		
Acute toxicity : Oral: Harmful if swallowed.		
Quinine (130-95-0)		
LD50 oral rat	350.82 mg/kg	
LD50 oral guinea pig	1800 mg/kg	
Skin corrosion/irritation	: Not classified	
Based on available data, the classification criteria are not met pH: 9.0 – 10.0		



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Serious eye damage/irritation	: May cause slight irritation to	eyes	
	Based on available data, the pH: 9.0 – 10.0	e classification criteria are not met	
Respiratory or skin sensitisation	: May cause an allergic skin r	eaction.	
Germ cell mutagenicity	: Not classified		
	Based on available data, the	e classification criteria are not met	
Carcinogenicity	: Not classified		
	Based on available data, the	e classification criteria are not met	
Reproductive toxicity	: Not classified		
	Based on available data, the	e classification criteria are not met	
Specific target organ toxicity (sing	le exposure) : Not classified		
	Based on available data, the	e classification criteria are not met	
Specific target organ toxicity (repe	eated : Not classified		
exposure)	Based on available data, the	e classification criteria are not met	
Aspiration hazard	: Not classified		
	Based on available data, the	e classification criteria are not met	
11.2. Information on other h	nazards		
11.2.1. Endocrine disrupting p	properties		
Endocrine disruption for human he	ealth : The substance/mixture has	no endocrine disrupting properties.	
11.2.2. Other information			
Potential adverse human health ei symptoms		oxic effects (e.g. headache, tinnitus, visua disorders (e.g. nausea, vomiting, diarrhoe	

SECTION 12: Ecological information	5h
12.1. Toxicity	
Acute aquatic toxicity	: Not classified
Chronic aquatic toxicity	: Not classified
Quinine (130-95-0)	
LC50 fish	431.85 mg/l 96 h, Danio rerio
LC50 fish	26.1 mg/l 96 h, Ictalurus punctatus
EC50 daphnia	34.4 mg/l 24 h, Daphnia magna
EC50 daphnia	25.4 mg/l 24 h, Daphnia pulex
ErC50 algae	11.13 mg/l 72 h, Dunaliella salina
Cinchonidine (485-71-2)	
EC50 daphnia	68.09 mg/l 48 h, Daphnia magna
Cinchonine (118-10-5)	
EC50 daphnia	79.96 mg/l 24 h, Daphnia magna
EC50 daphnia	14.25 mg/l 48 h, Daphnia magna
12.2. Persistence and degradability	
Quinine (130-95-0)	
Persistence and degradability	Readily biodegradable.
Biodegradation	86.3 % 28 d (OECD 301 B)
Cinchonidine (485-71-2)	
Persistence and degradability	Readily biodegradable.
Biodegradation	81.2 % 28 d (OECD 301 B)
Cinchonine (118-10-5)	
Persistence and degradability	Readily biodegradable.
Biodegradation	72 – 96.9 % 28 d (OECD 301 B)
12.3. Bioaccumulative potential	
Quinine (130-95-0)	
Bioconcentration factor (BCF REACH)	48
Log Pow	3.17



Trade name:	Trade	name:
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Quinine (130-95-0)	
Bioaccumulative potential	Low bioaccumulation potential.
Cinchonidine (485-71-2)	
Bioconcentration factor (BCF REACH)	18.7
Log Pow	2.82
Bioaccumulative potential	Low bioaccumulation potential.
Cinchonine (118-10-5)	
Bioconcentration factor (BCF REACH)	18.7
Log Pow	2.82
Bioaccumulative potential	Low bioaccumulation potential.
12.4. Mobility in soil	
Quinine (130-95-0)	
Log Koc	2.41 – 4.07
Cinchonidine (485-71-2)	
Log Koc	2 - 4.26
Cinchonine (118-10-5)	
Log Koc	2-4.26
12.5. Results of PBT and vPvB assess	ment
This substance does not meet the PBT- or vP	
12.6. Endocrine disrupting properties	
Endocrine disruption for the environment	: The substance/mixture has no endocrine disrupting properties.
12.7. Other adverse effects	
No additional information available	
SECTION 13: Disposal considerati	ions
13.1. Waste treatment methods	
Regional legislation (waste)	: Dispose in a safe manner in accordance with local/national regulations.
Waste treatment methods	: This material and its container must be disposed of as hazardous waste. Do not dispose of with domestic waste. Do not empty into drains.
Waste disposal recommendations	: Empty the packaging completely prior to disposal. When totally empty, containers are recyclable like any other packing.
European List of Waste (LoW) code	: 07 00 00 - WASTES FROM ORGANIC CHEMICAL PROCESSES 07 01 00 - wastes from the manufacture, formulation, supply and use (MFSU) of basic organic chemicals
Waste code	: The waste code number according to the Ordinance on the European Waste Catalogue (EWC) depends on the waste producer and can therefore vary for any given product. The waste code number is therefore to be gleaned separately from each waste producer.
<b>SECTION 14: Transport informatio</b>	n
In accordance with ADR / IMDG / IATA	
14.1. UN number or ID number	
UN-No. (ADR)	: Not applicable
UN-No. (IMDG)	: Not applicable
UN-No. (IATA)	: Not applicable
14.2. UN proper shipping name	
Proper Shipping Name (ADR)	: Not applicable
Proper Shipping Name (IMDG)	: Not applicable
Proper Shipping Name (IATA)	: Not applicable

### ADR Transport hazard class(es) (ADR)

Transport hazard class(es) (ADR)	: Not applicable

Transport hazard class(es)

### IMDG

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14.3.

# Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878



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Transport hazard class(es) (IATA)	: Not applicable
14.4. Packing group	
Packing group (ADR)	: Not applicable
Packing group (IMDG)	: Not applicable
Packing group (IATA)	: Not applicable
14.5. Environmental hazards	
Dangerous for the environment	: No
Marine pollutant	: No
Other information	: No supplementary information available

### Special precautions for user 14.6.

### - Overland transport

Not applicable

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# - Transport by sea

## Not applicable

### - Air transport

Not applicable

### 14.7. Maritime transport in bulk according to IMO instruments

### Not applicable

# SECTION 15: Regulatory information

Safety, health and environmental regulations/legislation specific for the substance or mixture 15.1.

### 15.1.1. **EU-Regulations**

### **REACH Annex XIV (Authorisation List)**

Contains no substance(s) listed on REACH Annex XIV (Authorisation List).

### **REACH Candidate List (SVHC)**

Contains no substance(s) listed on the REACH Candidate List.

### **PIC Regulation (Prior Informed Consent)**

Contains no substance(s) listed on the PIC list (Regulation EU 649/2012 concerning the export and import of hazardous chemicals).

### POP Regulation (Persistent Organic Pollutants)

Contains no substance(s) listed on the POP list (Regulation EU 2019/1021 on persistent organic pollutants).

### Ozone Regulation (1005/2009)

Contains no substance(s) listed on the Ozone Depletion list (Regulation EU 1005/2009 on substances that deplete the ozone layer).

### **Explosives Precursors Regulation (2019/1148)**

Contains no substance(s) listed on the Explosives Precursors list (Regulation EU 2019/1148 on the marketing and use of explosives precursors).

### Drug Precursors Regulation (273/2004)

Contains no substance(s) listed on the Drug Precursors list (Regulation EC 273/2004 on the manufacture and the placing on market of certain substances used in the illicit manufacture of narcotic drugs and psychotropic substances).

### 15.1.2. National regulations

No additional information available

15.2. **Chemical safety assessment** 

For this substance a chemical safety assessment was not carried out.

### SECTION 16: Other information



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Data source	:	REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAME COUNCIL of 16 December 2008 on classification, labelling and packa nixtures, amending and repealing Directives 67/548/EEC and 1999/4 Regulation (EC) No 1907/2006.	aging of substances and

Changes compared to earlier Versions	: Section 2.3. Other hazards Section 11.2.1 Endocrine disrupting properties Section 12.6. Endocrine disrupting properties Section 15.1.1. EU-Regulations
Review	: -

Review

Abbreviations and acronyms:

onyms.
European Agreement concerning the International Carriage of Dangerous Goods by Road
Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures
Derived Minimal Effect Level
Derived No-Effect Level
The effective concentration of substance that causes 50% of the maximum response (Median Effective Concentration)
International Air Transport Association
"International Maritime Dangerous Goods Code" for the transport of dangerous goods by sea
Lethal Concentration to 50 % of a test population (Median Lethal Concentration)
Lethal Dose to 50% of a test population (Median Lethal Dose)
Lowest Observed Adverse Effect Level
No Observed Adverse Effect Concentration/Level
No Observed Effect Concentration/Level
Organisation for Economic Cooperation and Development
Persistent, Bioaccumulative and Toxic substance
Predicted No-Effect Concentration
Regulation (EC) No 1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals
Safety Data Sheet
Sewage Treatment Plant
Unique Formula Identifier
Very Persistent and Very Bioaccumulative

# Full text of H- and EUH-statements:

Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
Skin Sens. 1A	Sensitisation - Skin, Category 1A
H302	Harmful if swallowed.
H317	May cause an allergic skin reaction.

## SDS EU (REACH Annex II)

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.